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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09 462,695	01 12 2000	John B. Matthew		5411

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Patrick J Walsh
400 Main Street
Stamford, CT 06901

EXAMINER

SAVAGE, MATTHEW O

ART UNIT	PAPER NUMBER
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1723

9

DATE MAILED: 04 16 2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/462,695

Applicant(s)

MATTHEW ET AL.

Examiner

Matthew O Savage

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 February 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 12-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 12-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 12-23 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification fails to adequately disclose how the spacers and strips are "metallurgically bonded" to one another.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to lines 5 and 8 of claim 12, "the width" and "the length" lack proper antecedent basis.

Concerning line 5 of claim 13, "the width" lacks antecedent basis. On lines 6-7, it is unclear how the cross bars can have a length greater than four times their length.

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Regarding lines 4, 5, and 15 of claim 14, "the width", "the surface", and "the portion" lack antecedent basis.

Regarding lines 4 and 15 of claim 15, "the width", and "the portion" lack antecedent basis.

With respect to line 1 of claim 16, it is unclear as to what slot width "very fine slots of selected width" imply. Concerning lines 4 and 5, it is unclear as to what tolerance "approximately" implies. On line 6, "the width" lacks antecedent basis.

With respect to lines 1-2 of claim 17, it is unclear as to what slot width "very fine slots of selected width" imply. In addition, the location of the spacers in relation to the slots and strips is unclear.

On lines 4, 6, and 8 of claim 18, it is unclear as to what tolerance "approximately" implies. On lines 4 and 6, "the width" lacks antecedent basis. In addition, the location of the spacers in relation to the slots and strips is unclear, and it is unclear as to which elements define the "intercontacting surfaces" recited on line 10.

With respect to line 1 of claim 21, it is unclear as to what slot width "very fine slots of selected width" imply. Concerning lines 4, 5, and 8 it is unclear as to what tolerance "approximately" implies. On line 6, "the width" lacks antecedent basis. In addition, the location of the spacers in relation to the slots and strips is unclear, and it is unclear as to which elements define the "intercontacting surfaces" recited on line 10.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12, 13, 16, and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gruiten.

With respect to claim 12, Gruiten discloses a screen plate including an assembly of elongate strips 6, a plurality of spacer cross bars 1 located between the assembly of strips, the spacer cross bars having a thickness defining a width of the slots between adjacent strips (see FIGS. 4 and 8. Gruiten et al fail to specify the limitation of the spacer cross bars being separated from each other at intervals approximately two to twenty times the length of the spacer cross bar and the screen plate as having an open area of up to 27%, however, such a modification would have been obvious in order to optimize the open area and the strength of the screen for a particular application.

With respect to claim 13, Gruiten discloses a screen plate including an assembly of elongated strips 6, a plurality of spacer cross bars 1 located between adjacent strips, the spacer cross bars having a thickness defining the width of the slots between adjacent strips. Gruiten et al fail to specify the limitation of the spacers cross bars having a length four times their length, the spacer cross bars being separated from each other at intervals approximately two to twenty times the length of the spacer cross bar, and the screen plate as having an open area of up to 27%, however, such a modification would have been obvious in order to optimize the open area and the strength of the screen for a particular application.

With respect to claim 16, Gruiten discloses a screen plate having very fine slots of selected width for screening devices including a plurality of elongate strips 6 having side edges, a plurality of elongate spacers 1 having a thickness approximately equal to the width of the slots in the screen plate, the spacers having a width approximately equal to the width of the strips (see FIG. 4), the strips and spacers being metallurgically bonded at interconnecting surfaces. Gruiten et al fail to specify the limitation of the spacers cross bars having a length four times their length, the spacer cross bars being separated from each other at intervals approximately two to twenty times the length of the spacer cross bar, and the screen plate as having an open area of up to 27%, however, such a modification would have been obvious in order to optimize the open area and the strength of the screen for a particular application.

With respect to claim 21, Gruiten discloses a screen plate having very fine slots of selected width for screening devices including a plurality of elongate strips 6 having side edges, a plurality of elongate spacers 1 having a thickness approximately equal to the width of the slots in the screen plate, the spacers having a width approximately equal to the width of the strips (see FIG. 4), the strips and spacers being metallurgically bonded at intercontacting surfaces. Gruiten et al fail to specify the limitation of the spacers cross bars having a length four times their length, the spacer cross bars being separated from each other at intervals approximately two to ten times the length of the spacer cross bar, and the screen plate as having an open area of up to 27%, however, such a modification would have been obvious in order to optimize the open area and the strength of the screen for a particular application.

With respect to claim 22, Gruiten discloses a screen plate including a plurality of strips 6 separated by spacers 1 having a uniform length to define slots of uniform length. Gruiten et al fail to specify the limitation of the ratio of slot length to spacer length as being in a range of 2-10:1, however, such a modification would have been obvious in order to optimize the open area and the strength of the screen for a particular application.

With respect to claim 23, Gruiten discloses a screen plate including a plurality of strips 6 separated by spacers 1 to define slots of uniform width and length between the strips. Gruiten fails to specify the limitation of the slots having a width of less than 0.005 inches or less and a length of 3 inches or less and the slots forming at least 15% of the open area of the screen plate, however, such a modification would have been obvious in order to optimize the degree of separation and open area and strength of the screen for a particular application.

Claims 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gruiten in view of Malm.

With respect to claim 18, Gruiten discloses a side wall screen plate with slots parallel to an axis (see lines 7 and 8) including a plurality of elongate strips 6 having side edges, a plurality of elongate spacers 1 having a thickness approximately equal to the width of the slots in the screen plate, the spacers having a width approximately equal to the width of the spacers, the strips and spacers being metallurgically bonded at intercontacting surfaces. Gruiten et al fail to specify the limitation of the spacers cross

bars having a length four times their length, the spacer cross bars being separated from each other at intervals approximately two to ten times the length of the spacer cross bar, and the screen plate as having an open area of up to 27%, however, such a modification would have been obvious in order to optimize the open area and the strength of the screen for a particular application. Gruiten fails to specify the screen plate as being in the form of a screen cylinder. Malm discloses a screen plate in the form of a screen cylinder and teaches that such a configuration enables the efficient screening of a lignocellulose containing fibrous material. It would have been obvious to have modified the screen plate of Gruiten so as to have arranged in the form of a screen cylinder as suggested by Malm in order to enable the efficient screening of a lignocellulose pulp material.

Concerning claim 19, Malm discloses profile bars 15 forming part of cylinder side wall.

As to claim 20, Malm discloses a cylindrical side wall having sections of between two and twenty slots in width with the sections separated by the profile bars 15.

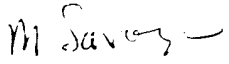
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew O Savage whose telephone number is 703-308-3854. The examiner can normally be reached on Monday-Friday, 6:00am-2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda W. Walker can be reached on 703-308-0457. The fax phone numbers for the organization where this application or proceeding is assigned are 703-

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872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.


Matthew O Savage
Primary Examiner
Art Unit 1723

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April 15, 2003